

## CLAIMS

I claim:

1. An soil aerating machine, comprising:

a loader having a wheeled base for traveling over earth, a motive power plant providing motive power to said wheeled base, a loader boom also driven by power derived from said motive power plant and operatively moveable with respect to said wheeled base, and means for operatively attaching loader buckets and other attachments to said loader boom;

a source of pressurized air;

a pneumatic pressure tank having an inlet receiving pressurized air from said pressurized air source and having an outlet;

an air nozzle having an air inlet receiving pressurized air from said pneumatic pressure tank and having an air outlet that is operatively inserted into the earth and being operative to conduct said pressurized air from said air inlet into said earth adjacent said air outlet; and

a basket coupled to said attaching means and supporting said air nozzle.

2. The soil aerating machine of claim 1 further comprising a pneumatic hammer for driving said air nozzle into the earth, said pneumatic hammer journaled to said basket and supporting said nozzle therefrom.

3. The soil aerating machine of claim 1, wherein said air nozzle is coupled to said basket and

moveable relative thereto.

4. The soil aerating machine of claim 3, wherein said air nozzle has an axis of rotation perpendicular to said air nozzle and transverse to said loader.
5. The soil aerating machine of claim 1, wherein said basket further comprises a base, a generally angularly offset back wall, and two side walls.
6. The soil aerating machine of claim 5, wherein said generally angularly offset back wall is attached to said boom.
7. The soil aerating machine of claim 1, wherein said pneumatic pressure tank is supported by said basket.
8. The soil aerating machine of claim 1, wherein said source of pressurized air further comprises an air line coupled to a remote compressor.
9. The soil aerating machine of claim 1, wherein said source of pressurized air further comprises an air compressor deriving power from motive power plant.
10. The soil aerating machine of claim 1, wherein said loader further comprises a front-end loader.

11. The soil aerating machine of claim 10, wherein said front-end loader further comprises a skid steer.
12. A self-propelled land vehicle having a motive power source, a base, a boom arm, and a coupling connected to said boom arm to which attachments may be engaged, wherein the improvement comprises:
  - an air tube pivotally coupled to said boom arm adjacent a first end and insertable into the earth at a second end distal to said first end;
  - a means for providing a high pressure, high volume impulse of air to said air tube;
  - a means for controlling an extent of insertion of said air tube into the earth; and
  - a means for controlling the providing of said high pressure, high volume impulse of air to said air tube.
13. The self-propelled land vehicle of claim 12, further comprising an air tank supported by said boom arm and adjacent said air tube.
14. The self-propelled land vehicle of claim 12, further comprising a pneumatic hammer having a work axis axially aligned with an air tube longitudinal axis.
15. A method of restoring a septic system comprising the steps of:
  - locating buried septic components;
  - coupling a gas injection tube to a loader boom arm;
  - inserting said gas injection tube into the earth adjacent said located buried septic

components;

providing a high pressure gas to said gas injection tube;

withdrawing said gas injection tube from the earth;

repositioning said loader boom arm to a new position adjacent said located buried

septic components; and

repeating said inserting, providing, and withdrawing steps subsequent to said

repositioning step.

16. The method of restoring a septic system of claim 15, further comprising the step of engaging a power driver with said gas injection tube.
17. The method of restoring a septic system of claim 16, wherein said power driver further comprises an air hammer.
18. The method of restoring a septic system of claim 15, wherein said coupling is pivotal.
19. The method of restoring a septic system of claim 15, wherein said step of providing further comprises the step of mounting an air pressure tank on a basket coupled to said loader boom arm.